

What is Claimed is:

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1. A method of transferring molecules positioned within a matrix to a

laminate comprising:

5 contacting the matrix with a laminate comprising i) a substrate comprising a shrinkable polymeric film, and ii) a hydrogel disposed on the substrate, to transfer one or more molecules from the matrix to the laminate.

2. The method of claim 1 wherein the hydrogel comprises linking agents.

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10 3. The method of claim 2 wherein the linking agents comprise azlactone copolymers.

15 4. The method of claim 1 wherein the laminate further comprises a mask layer.

20 5. The method of claim 4 wherein the mask layer is in direct contact with the substrate and underlies the hydrogel.

6. The method of claim 1 wherein the one or more molecules are transferred from the matrix to the laminate by electroblotting.

7. The method of claim 1 wherein the matrix contains polynucleotides, polypeptides, polysaccharides, or combinations thereof.

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8. The method of claim 1 wherein the matrix comprises an agarose gel or a polyacrylamide gel.

9. The method of claim 1 further comprising detecting the one or more molecules transferred from the matrix to the laminate.

10. The method of claim 1 wherein the shrinkable polymeric film is flexible.

11. The method of claim 1 wherein the shrinkable polymeric film is heat-shrinkable.

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12. A composition comprising:

a laminate comprising i) a substrate comprising a polymeric film and ii) a hydrogel disposed on the substrate, the laminate having a projected surface area and a topographical surface area wherein the topographical surface area is greater than the projected surface area; and

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one or more molecules affixed to the laminate;

wherein the one or more molecules are configured so that they may be assayed or detected.

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13. The composition of claim 12 wherein the laminate further comprises a mask layer.

14. The composition of claim 13 wherein the mask layer is in direct contact with the substrate and underlies the hydrogel.

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15. The composition of claim 12 wherein the molecules are selected from polypeptides, polynucleotides, polysaccharides, and any combination thereof.

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16. A method of preparing molecules positioned within a matrix for analysis comprising:

contacting the matrix with a shrinkable laminate having a projected surface area and a topographical surface area so that one or more molecules are transferred from the matrix to the laminate; and

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shrinking the laminate so that the topographical surface area is greater than the projected surface area.

17. The method of claim 16 wherein the laminate comprises:  
a substrate comprising a polymeric film, and  
a hydrogel disposed on the substrate.

5 18. The method of claim 16 wherein the laminate further comprises a mask layer.

10 19. The method of claim 16 wherein the mask layer is in direct contact with the substrate and underlies the hydrogel.

15 20. The method of claim 16 wherein the laminate comprises linking agents.

20 21. The method of claim 20 wherein the linking agents comprise azlactone copolymers.

25 22. The method of claim 16 wherein the one or more molecules are transferred from the matrix to the laminate by electroblotting.

Sub Q3 23. The method of claim 16 wherein the matrix contains polynucleotides, polypeptides, polysaccharides, or combinations thereof.

24. The method of claim 16 wherein the matrix comprises an agarose gel or a polyacrylamide gel.

25. The method of claim 16 further comprising detecting the one or more molecules transferred from the matrix to the laminate.

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